

WHAT IS CLAIMED IS:

1. A complex of clay silicate and polyoxyalkylene amine grafted polypropylene, which is formed by modifying inorganic layered silicate clay with an amphibious intercalating agent obtained by polymerizing 5 polyoxyalkylene amine having molecular weight over 1,800 and polypropylene-grafting-maleic anhydride (PP-g-MA).
2. The complex of claim 1, wherein said polyoxyalkylene amine is polyoxyalkylene diamine.
3. The complex of claim 1, wherein said polyoxyalkylene amine is 10 selected from a group consisting of polyoxypropylene diamine, polyoxy-ethylene diamine and poly(oxyethylene-oxypropylene) diamine.
4. The complex of claim 1, wherein said clay is selected from a group consisting of montmorillonite, kaolin, mica and talc.
5. The complex of claim 1, wherein said clay has a cation exchange 15 capacity between 50-200 meq/100g.
6. A method for producing a complex of clay and polyoxyalkylene amine, wherein said clay is layered and includes silicate; said method is primarily to polymerize said polyoxyalkylene amine having molecular weight over 1,800 and polypropylene-grafting-maleic anhydride (PP-g- 20 MA) to form an amphibious intercalating agent, which is then acidified with an inorganic acid, and mixed with said swelled clay by powerfully stirring at 60-80°C for cation exchanging to obtain said complex.
7. The method of claim 6, wherein said clay is selected from a group consisting of montmorillonite, kaolin, mica and talc.
- 25 8. The method of claim 6, wherein said clay has a cation exchange

capacity between 50-200 meq/100g.

9. The method of claim 6, wherein said polyoxyalkylene amine is polyoxyalkylene diamine.

10. The method of claim 6, wherein said polyoxyalkylene amine is
5 selected from a group consisting of polyoxypropylene diamine, polyoxy-
ethylene diamine and poly(oxyethylene-oxypropylene) diamine adduct.

11. The method of claim 6, wherein said inorganic acid is selected
from a group consisting of hydrochloric acid, sulfuric acid, phosphoric
acid and nitric acid.

10